

Developing an Institutional Repository

Implementation of DigiTool at Colorado State University Libraries

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Digital Repositories Services



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Background

- Why do we need an institutional repository?
 - *University/Library strategic direction*
 - *Scholarly communication movement*
 - *Promotional tool for CSU students and faculty*
 - *Central place of CSU research and scholarship*
- Where are we?
 - *CONTENTdm since 2001*
 - *Nearly 4,000 digital objects created in the past*
 - *DigiTool implementation since May 2007; in production since March 2008*
 - *Migrate from CONTENTdm to DigiTool in 2009*



ETD

THESIS

**THE ART AND SCIENCE OF NATURAL DISCOVERY:
ISRAEL COOK RUSSELL AND THE EMERGENCE OF MODERN
ENVIRONMENTAL EXPLORATION**

Submitted by

Patrick D. Sylvestre

Department of History

In partial fulfillment of the requirements

For the Degree of Master of Arts

Colorado State University

Fort Collins, Colorado

Spring 2008



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Student Research Poster



Application-Aware In-Network Service Deployment for Collaborative Adaptive Sensing of the Atmosphere (CASA)



Panho Lee, Tarun Banka, Sanghun Lim, Anura P. Jayasumana, V. Chandrasekar
 (leapanho, banka, shlim, anura, chandra}@engr.colostate.edu

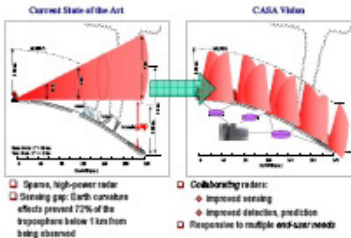
Department of Electrical and Computer Engineering, Colorado State University, Fort Collins

Abstract

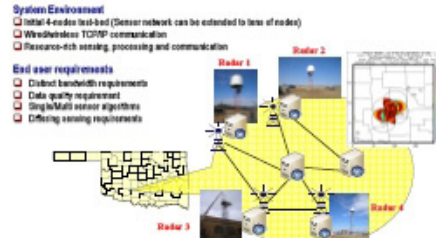
An Engineering Research Center for Collaborative Adaptive Sensing of the Atmosphere (CASA) funded by the National Science Foundation, seeks to revolutionize the way we detect, monitor and predict atmospheric phenomena by creating a dense network of small, low-cost, low-power radars that could collaboratively and adaptively sense the lower atmosphere. Such a network is expected to provide more timely and accurate forecasts for tornadoes, flash floods, and other hazardous weather. In addition, the collaborative radars can offer improved accuracy and more specific inferences that could not be achieved by the use of a single long-range radar. In CASA, multiple radars and users may be present that have distinct sensing, communication and computation requirements for their operations. In addition, the underlying network infrastructure may itself be subjected to adverse conditions due to severe weather and link degradation/obscure along wired and wireless links.

We use overlay networking to provide acceptable quality of service (QoS) and robust data transport service for the CASA end-users. At CSU, we have developed an AWON (Application-Aware Overlay Network) architecture for deploying application-aware services in an overlay network to best meet the end-user QoS requirements over the available networking infrastructure. Based on this, we have implemented an application-aware multicast service for CASA. We also present a multi-sensor fusion framework which can provide a mechanism for selecting a set of data fusion considering application-specific needs, and a distributed processing scheme to minimize the execution time required for processing data per integration algorithm.

CASA: Collaborative Adaptive Sensing of the Atmosphere



CASA Oklahoma Test-bed



Goals

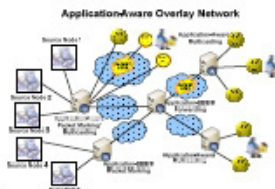
Develop networking protocols for emerging distributed collaborative adaptive sensing systems such as CASA:

- Develop an architecture for application-aware data dissemination
- Design and develop application-aware protocols
- Develop application programming interface/API for application-aware overlay deployment
- Develop a multi-sensor data fusion framework for CASA radar data fusion algorithms

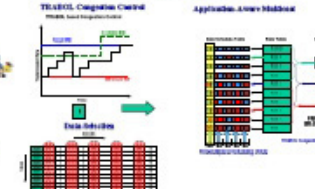
Application-Aware Overlay Network



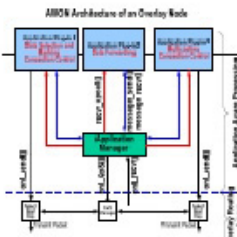
Application-Aware Multicast



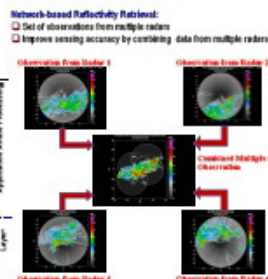
Application-Aware Multicast Protocol



AWON (Application-Aware Overlay Network) Nodes Architecture:

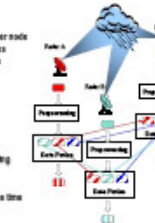


CASA Data Fusion



Multi-Sensor Data Fusion: Challenges

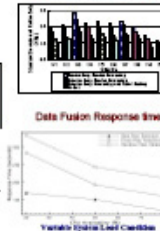
- Resource-Intensive Applications:**
- High-bandwidth data generation:
 - several Mbps to tens of Mbps per node
 - Cost amount of computation resources
 - Client-server architecture may not be appropriate:
 - Scalability issue
 - Single-point of failure
- Peer-to-Peer Processing:**
- P2P for multi-sensor fusion
 - Better resource utilization by sharing
 - Overload processing
 - Better fault tolerance
 - Coordinate peers to minimize response time



Fusion Node Architecture



Performance Evaluation



Publications

- Q.P. Lee, T. Banka, A. P. Jayasumana, V. Chandrasekar, "Content-based Packet Marking for Application-aware Processing in Overlay Networks," Proc. of IEEE Local Computer Networks LCN 2006, pp. 123-131, Tampa, FL, Nov. 2006
- Q.T. Banka, P. Lee, A. P. Jayasumana, and J.F. Kurosu, "An Architecture and a Programming Interface for Application-Aware Data Dissemination Using Overlay Networks," Proc. of IEEE/ACM 2nd Int. Conf. on Communication Systems Software and Middleware, COMSWARE, 2007, pp. 5-11, Bangalore, India, Jan. 2007
- Q.P. Lee, A. P. Jayasumana, S. Lim and V. Chandrasekar, "A Peer-to-Peer Collaborative Framework for Multisensor Data Fusion," Proc. International Joint Conference on Computer, Information, and Systems Sciences and Engineering (IC3SE 2007), Bangalore, CT, Dec. 2007
- Q.S. Lim, V. Chandrasekar, P. Lee, A. P. Jayasumana, "Reflectivity Retrieval in a networked radar environment: Demonstration from the CASA R1 radar-network," Proceedings of IGARSS'07, Barcelona, Spain

Summary and Future Work

- Application-aware processing paradigm using overlay networks for meeting QoS requirements of heterogeneous and users in CASA networks
 - AWON architecture for deployment of application-aware functionality in overlay networks
 - Application-aware congestion control and in-network processing enhance the QoS under dynamic network conditions
- Multi-sensor data fusion framework for CASA and other emerging distributed collaborative adaptive sensing systems
 - Deployment of multi-sensor data fusion service in CASA network
 - Data fusion framework reduces the execution time required for data fusion processing
 - Implementation a prototype of multi-sensor data fusion framework and test it in a real test-bed environment.
 - Develop an analytical model for data fusion response time considering the impact of network dynamics such as network delay and loss

This research was supported by the Engineering Research Centers program of the National Science Foundation under NSF award number EEC0707471. Any opinions, findings, conclusions, or recommendations expressed in this material are those of the authors and do not necessarily reflect those of the National Science Foundation.



Glass Plate Negative



Magic Lantern Slide



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Overview

- Goals
- Software selection
- DigiTool overview
- Customization
- Promotion
- Issues & observations





Goals

Service to Campus

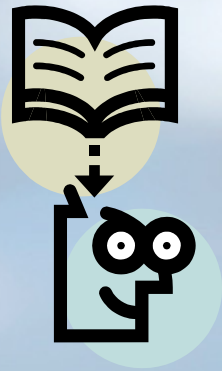
- Foster & highlight: *faculty and student research and collaboration*
- Preserve & make accessible: *CSU intellectual assets and institutional memory*
- Increase: *CSU visibility to the world*



Planning

- Human resources
- Budget
- Timeline
- File formats
- Collection development policy
- Software selection





Software Selection

Who investigated

- Coordinator for Digital Repositories Services
- Coordinator for Library Technology Services



Choice Choice Choice



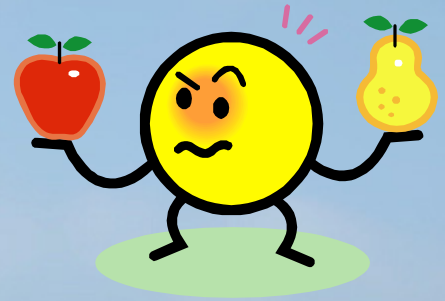
- Open-source:
 - DSpace
 - Fedora ...
- Vendor-supplied:
 - DigiTool
 - Digital Commons
 - HarvestRoad
 - Symposia ...

Courtesy of Dawn Bastian and
Don Albrecht



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Final Candidates



DSpace

- Pros
 - Free (or low cost)
 - Flexible (unique needs)
 - Developer community (improved quality)
 - Easy migration
- Cons
 - Staff and financial commitment
 - Higher cost over time
 - Potential for code infringement

DigiTool

- Pros
 - Off-the-shelf
 - Many robust built-in functionalities
 - Follow standards
 - Less staff commitment
- Cons
 - \$\$\$\$\$ (one-time purchase)
 - Less flexibility
 - Rely on vendor

Courtesy of Dawn Bastian and
Don Albrecht



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DigiTool Overview

- Modules:
 - Deposit (*user*)
 - Approver (*staff*)
 - Web ingest (*staff*)
 - Collection management (*staff*)
 - Management (*staff*)
- Access and maintenance:
 - Web
 - Meditor (**Metadata editor**)
 - Linux server
 - Customize metadata
 - Customize web interface



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Bookmarkable URL<http://hdl.handle.net/10217/549> **Authors**

Colbert, Karen

Title

Effect of Histone H3 E73D Mutation on in vitro Chromatin Silencing

Keywords

DNA ; histones

Abstract

Organization of DNA into chromatin requires the presence of small basic proteins called histones. Core histones are highly conserved across various species. In addition to their function as DNA packing material, histones play an important role in the regulation of transcription, replication, and gene silencing. In particular, histone-mediated silencing is achieved via histone modifications and through interactions with suppressor proteins. In the yeast *Saccharomyces cerevisiae*, a single amino acid substitution (E73D) found within the conserved region of histone H3, has been shown to de-repress silencing at the telomeres and mating type loci in yeast (Thompson et al., 2003). It has been proposed that the substitution may shorten the amino acid side chain length enough to disrupt a necessary interaction at the H3-H4 interface within the nucleosome. Alternatively, the E73D mutation may affect the binding affinity of Sir3 for histone H3. Sir3 and Sir4, chromatin-associated repressor proteins, are known to mediate telomeric and mating loci silencing in *S. cerevisiae* (Grunstein et al., 1997). In order to test the effect of the E73D mutation on nucleosome stability in vitro, the crystal structure of nucleosomes containing the H3 mutant will be determined to ascertain the charge interactions between the amino acid residues within the vicinity of the substituted residue. In addition, binding studies will be carried out to investigate Sir protein binding to nucleosomes containing H3 E73D histones. Finally, analytical ultracentrifugation experiments will provide quantitative data on the in vitro dynamics of nucleosomal arrays comprised of nucleosomes containing H3 E73D.

Award

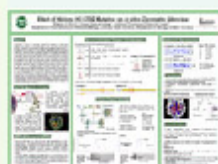
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2007



Phylogeny of the Celastree (Celastraceae) inferred using chloroplast and nuclear loci



Introduction

The phylogenetic inference presented of the Celastreae (Celastraceae) is based on four loci: *rbcL* and *trnK-F* from the chloroplast genome and ITS and 28S rDNA from the nuclear genome. The species sampled are combined with taxa sampled from previous studies to better test the monophyly of the genera along with the intergeneric relationships within this tribe. The main purpose is to give an overview of the laboratory procedures used and the results from the sampling. The procedures include DNA isolation, DNA amplification, DNA purification, construction of contiguous sequences, sequence alignment, and lastly phylogenetic inference.

DNA Isolation

The DNA was isolated from dried leaf tissues from all seven taxa (Table 1) using a Qiagen DNeasy plant mini kit. The tissue was ground using the "Machadori," a reciprocating saw that macerated the material. After the addition of lysis buffer containing an enzyme for RNA digestion, the lysate was heated and centrifuged to remove polysaccharides, proteins and larger leaf solids. Plant cell debris was separated from the decant by filtration and centrifugation. Unfiltered proteins and polysaccharides within the mixture were removed in a series of filtrations and washings via centrifugation through a DNA-binding silica-gel-based membrane. DNA was then eluted into a low-salt solution to obtain optimal yield and concentration. The resulting isolations were kept at -20°C.

DNA Amplification

The DNA was amplified using PCR (Figure 1), a method which uses RNA primers and free nucleotides to create replicates of a target gene. The PCR cycle includes three temperature dependent stages: denaturation, annealing, and extension. Denaturation created single strands of DNA that allowed the primers to anneal to them; extension was accomplished by employing Taq polymerase and the free nucleotides. Denaturation was run at 94°C, annealing at 52°C for all primers except to obtain the 3' end of *trnK-F* which ran at 57°C and extension was carried out at 72°C. A total of 35 cycles were run and each time the amount of the target gene doubled creating millions of copies.

Gel electrophoresis was the method used to determine the success of the PCR by forcing the DNA to migrate through an agarose gel based on its negative charge, which caused it to separate based on the size of the fragments amplified. The gel contained ethidium bromide, which binds to DNA and fluoresces in U.V. light. Digital pictures were taken of all results (Figure 2).

DNA Purification

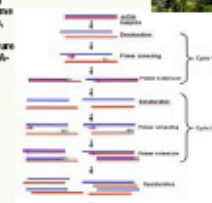
The PCR product was purified using the Qiagen QIAquick PCR Purification kit. A high salt buffer was combined with the PCR product in a spin column to bind the DNA to a silica-gel membrane. The column was centrifuged and then the membrane was washed to remove excess salts. The DNA was then eluted from the membrane with a low salt buffer. The resulting purified product was shipped to Macrogen, Inc. in South Korea for sequencing.

Creating Contiguous Sequences

After sequences were obtained from Macrogen, the raw sequences were compared with known sequences in GenBank to check for contamination. They are then edited in the program CodonCode Aligner (Figure 3; CodonCode Corporation) to make manual corrections to unassociated base calls and delete ambiguous regions at the beginnings and ends of sequences. Forward and reverse-complement sequences were then aligned to create a contiguous gene sequence.

Phylogeny of the Celastree (Celastraceae) inferred using chloroplast and nuclear loci

Jennifer J. Cappa, Allison L. Daw, and Mark P. Simmons
Dept. of Biology, Colorado State University, Ft. Collins, Co.



Sequence alignment

Contiguous sequences, each corresponding to a particular species, were imported into the program CLUSTALX (Figure 4; Thompson et al., 1997), and sequences of each gene were aligned using the default alignment parameters: transition cost = 6.5; gap opening cost = 18.0; gap extension cost = 0.5. This multiple alignment was performed using a series of pairwise alignments, with the most similar sequences aligned first.

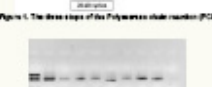


Figure 1. The three steps of the Polymerase chain reaction (PCR)

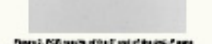
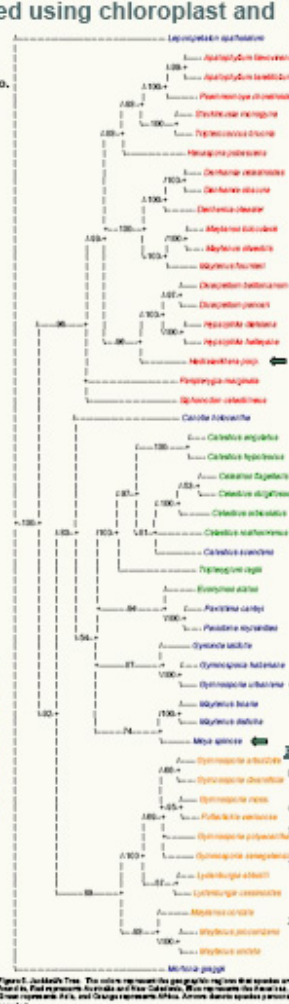


Figure 2. PCR results of the 3' end of the *trnK-F* gene



Phylogenetic Inference

An equally weighted parsimony jackknifed analysis (Paris et al., 1996) was performed using PAUP* (Swofford, 2001) with 1,000 jackknife replicates (Figure 5). Each replicate consisted of an independent tree search using tree-bisection-reconnection (TBR), a thorough tree-swapping algorithm. The tree was rooted using *Laportea* and *Moraea* as outgroups, following Zhang and Simmons' (2006) phylogenetic analysis of the order Celastrales.

Results

A total of 4,635 characters were used of which 1,081 were parsimony informative.

- The tree shows strong biogeographic relationships among the genera.
- All the Australian and New Caledonian species were resolved as one clade.
- The African species were also resolved as one clade.
- The American and Asia were not resolved as individual clades, but were resolved from the African and Australian/New Caledonian clades.
- The genus *Gynopogon* was resolved as a polyphyletic group with the New World species separated from the Old World species.
- The one species of *Medfordia* was resolved with the rest of the Australian and New Caledonian genera.
- The genus *Celastris* was resolved as a monophyletic group sister to the genus *Triclypeus*.
- The genus *Meyenura* was found to be polyphyletic. Species of *Meyenura* from different geographical regions were resolved as separate lineages.
- The one species sampled from the genus *Moya* was resolved as sister to the New World species of *Meyenura*.

References

Farris, J. S., V. A. Albert, M. Källersjö, D. Lipscomb and A. G. Kluge. 1994. Parsimony jackknifed outperforms neighbour-joining. *Cladistics* 10: 316-324.

Codon Code Corporation. 1993. CodonCode Aligner version 1.2.6 Dedham, Massachusetts.

Swofford, D. L. 2001. PAUP*: Phylogenetic analysis using parsimony (and other methods). Sunderland, Massachusetts, Sinauer.

Thompson, J. D., T. J. Gibson, F. Plewniak, F. Jeanmougin and S. G. Higgins. 1997. The CLUSTAL_X windows interface: flexible strategies for multiple sequence alignment aided by quality analysis tools. *Nucleic Acids Research* 25: 4187-4192.



Zhang, L.-B., and M. P. Simmons. 2006. Phylogeny and delimitation of the Celastrales inferred from nuclear and plastid genes. *Systematic Botany*, 31: 123-137.

Table 1. Species sampled

Taxa	Author
<i>Celastris rugosa</i> (Dc.) Walp. ex Link.	M.P. Simmons 1782 (alt), Arnold Arboretum (NY)
<i>Celastris hirsutissima</i> (Dc.) Walp. ex Link.	M.P. Simmons 1782 (alt), New York Botanic Garden (NY)
<i>Celastris hirsutissima</i> (Dc.) Walp. ex Link.	M.P. Simmons 1782 (alt), New York Botanic Garden (NY)
<i>Celastris alba</i> (L.) Link.	M.P. Simmons 1782 (alt), New York Botanic Garden (NY)
<i>Cymopterus hirsutus</i> (L.) Link.	R. Smedley et al. 2002, Fort Collins (CO)
<i>Medfordia purpurea</i> (P. Mill.)	A. Ford 2004, Australia (NY)
<i>Moya speciosa</i> (G. Don)	M. New 2010, Australia (NY)

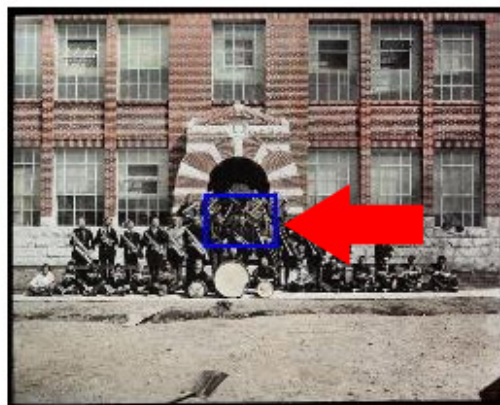
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Research and scholarship of CSU faculty and students

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780	5261	OAI	Meta	I+M	Full 43	Item 62	Journal of student affairs, vol. XVII (17), 2007-2008	Colorado State University. Student Affairs in Higher Education	Student affairs services -- United States Student affairs administrators -- Training of -- Colorado -- Fort Collins	2008	SAHE_2008.pdf JOUFJOSA100001EDUC

Metadata Approaches

- Display all DC. Ingest mostly DC XML files
- Edit in Meditor for minor changes
- Batch upload
 - CONTENTdm: export > .csv + mapping xml > ingest
 - New metadata: Excel > .csv + mapping xml > ingest
- Repurpose MARC
 - Export > MarcEdit (add 856) > MARCXML > Ingest
- METS (compound objects)
 - Arrange > Ingest > Utility > Edit (Oxygen) > Ingest

MARC XML Example

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<?xml version="1.0" encoding="UTF-8" ?>
<marc:collection xmlns:marc="http://www.loc.gov/MARC21/slim" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:schemaLocation="http://www

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<marc:record><marc:leader>00915nam a22002291a 4500</marc:leader>

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METS Utility

Mets Utility

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3.
4. Enter the Destintation File Name
A .xml extension will be added
5.

METS Example

```
<mets PROFILE="http://www.exlibris.co.il/digitool/xsd/exlibris_mets_profile_v1.0.xml" TYPE="document" OBJID="us::csu::AGSS_mets.xml" LABEL="Furthering perspectives: anthropological views of the world, vol. 2, 2008">
  <metsHdr>
    <agent ROLE="CREATOR" TYPE="ORGANIZATION">
      <name>Colorado State University</name>
    </agent>
  </metsHdr>
  <dmdSec ID="dmd001">
    <mdWrap MDTYPE="DC" MIMETYPE="text/xml" LABEL="Dublin Core Metadata">
      <xmldata>
        <dc:record xmlns:dc="http://purl.org/dc/elements/1.1/" xmlns:dcterms="http://purl.org/dc/terms/">
          <dc:creator>Anthropology Graduate Student Society (Colorado State University)</dc:creator>
          <dc:title>Furthering perspectives: anthropological views of the world, vol. 2, 2008</dc:title>
          <dc:tableOfContents>Contains seven articles:<br />
            "Gender and power in childbirth discourse: an analysis of two popular books", by April Biasioli;<br />
            "Indigenous land rights in the Amazon: a landscape approach", by Kristina Pearson;<br />
            "Shattered dreams: insanity and the implications of loneliness, isolation, and the failed promises of the American frontier", by Leslie Johnson;<br />
            "Gender and sexuality construction, as informed by Hip Hop Culture within the African American community", by Andrew Kumar;<br />
            "Mormon women: negotiating identities in the face of conflicting demands", by Henri Jean-Francois Dengah II;<br />
            "Vertical analysis of four units of debitage from the Kinney Spring Site (5LR144c): a multiple occupation site in northeastern Colorado", by Heather F.
            "Incentives of a commuter cycling community", by Melanie Graham.</dc:tableOfContents>
          <dc:originalpublisher>Anthropology Graduate Student Society (Colorado State University)</dc:originalpublisher>
          <dc:publisher>Colorado State University. Libraries</dc:publisher>
          <dc:isPartOf>Furthering perspectives: anthropological views of the world (ISSN 1941-1731)</dc:isPartOf>
          <dc:issued>2008</dc:issued>
          <dc:type>Text; Still image</dc:type>
          <dc:format>application/pdf</dc:format>
          <dc:identifier>JOUFFPAV1 00001AGSS</dc:identifier>
          <dc:language>eng</dc:language>
          <dc:language>English</dc:language>
          <dc:rights>c2008 Anthropology Graduate Student Society (Colorado State University)</dc:rights>
          <dc:metadataschema>CSU Journals 1.0</dc:metadataschema>
        </dc:record>
      </xmldata>
    </mdWrap>
  </dmdSec>
</mets>
```


METS Example

```
<fileSec>
<fileGrp USE="reference" VERSDATE="2008-05-19T11:07:00">
  <mets:file ID="s001" MIMETYPE="application/pdf" CREATED="2008-05-19T10:22:19" SIZE="792506" SEQ="1" GROUPID="gid001">
    <FLocat xlink:href="file://streams/100_AGSS_2008_vol_2_Cover.pdf" LOCTYPE="URL" />
  </mets:file>
<mets:file ID="s002" MIMETYPE="application/pdf" CREATED="2008-05-19T10:22:19" SIZE="254893" SEQ="2" GROUPID="gid002">
  <FLocat xlink:href="file://streams/101_AGSS_2008_vol_2_Biasioli.pdf" LOCTYPE="URL" />
</mets:file>
<mets:file ID="s003" MIMETYPE="application/pdf" CREATED="2008-05-19T10:22:19" SIZE="270239" SEQ="3" GROUPID="gid003">
  <FLocat xlink:href="file://streams/102_AGSS_2008_vol_2_Pearson.pdf" LOCTYPE="URL" />
</mets:file>
<mets:file ID="s004" MIMETYPE="application/pdf" CREATED="2008-05-19T10:22:19" SIZE="102764" SEQ="4" GROUPID="gid004">
  <FLocat xlink:href="file://streams/103_AGSS_2008_vol_2_Johnson.pdf" LOCTYPE="URL" />
</mets:file>
<mets:file ID="s005" MIMETYPE="application/pdf" CREATED="2008-05-19T10:22:19" SIZE="197365" SEQ="5" GROUPID="gid005">
  <FLocat xlink:href="file://streams/104_AGSS_2008_vol_2_Kumar.pdf" LOCTYPE="URL" />
</mets:file>
<mets:file ID="s006" MIMETYPE="application/pdf" CREATED="2008-05-19T10:22:19" SIZE="226262" SEQ="6" GROUPID="gid006">
  <FLocat xlink:href="file://streams/105_AGSS_2008_vol_2_Dengah.pdf" LOCTYPE="URL" />
</mets:file>
<mets:file ID="s007" MIMETYPE="application/pdf" CREATED="2008-05-19T10:22:19" SIZE="511665" SEQ="7" GROUPID="gid007">
  <FLocat xlink:href="file://streams/106_AGSS_2008_vol_2_Horobik.pdf" LOCTYPE="URL" />
</mets:file>
<mets:file ID="s008" MIMETYPE="application/pdf" CREATED="2008-05-19T10:22:19" SIZE="201516" SEQ="8" GROUPID="gid008">
  <FLocat xlink:href="file://streams/107_AGSS_2008_vol_2_Graham.pdf" LOCTYPE="URL" />
</mets:file>
</fileGrp>
<fileGrp USE="thumbnail" VERSDATE="2008-05-19T11:07:00">
  <mets:file ID="t001" MIMETYPE="image/jpeg" CREATED="2008-05-19T10:23:04" SIZE="26183" SEQ="1" GROUPID="gid001">
    <FLocat xlink:href="file://streams/_100_AGSS_2008_vol_2_Cover_pdf_thumbnail.jpg" LOCTYPE="URL" />
  </mets:file>
  <mets:file ID="t002" MIMETYPE="image/jpeg" CREATED="2008-05-19T09:29:14" SIZE="16500" SEQ="2" GROUPID="gid002">
    <FLocat xlink:href="file://streams/_101_AGSS_2008_vol_2_Biasioli_pdf_thumbnail.jpg" LOCTYPE="URL" />
  </mets:file>
</fileGrp>
```

METS Example

```
<structMap TYPE="PHYSICAL" ID="smd001">
  <div ORDER="1" ID="Auto_Generated_Qualifier_STRUCTMAP" TYPE="document" LABEL="Furthering perspectives: anthropological views of the world" />
  <div TYPE="document" LABEL="Cover, table of contents, and editor's note" ORDER="1">
    <fptr FILEID="s001" />
    <fptr FILEID="t001" />
    <fptr FILEID="i001" />
  </div>
  <div TYPE="document" LABEL="Gender and power in childbirth discourse: an analysis of two popular books" ORDER="2">
    <fptr FILEID="s002" />
    <fptr FILEID="t002" />
    <fptr FILEID="i002" />
  </div>
  <div TYPE="document" LABEL="Indigenous land rights in the Amazon: a landscape approach" ORDER="3">
    <fptr FILEID="s003" />
    <fptr FILEID="t003" />
    <fptr FILEID="i003" />
  </div>
  <div TYPE="document" LABEL="Shattered dreams: insanity and the implications of loneliness, isolation, and the failed promises of the American frontier" ORDER="4">
    <fptr FILEID="s004" />
    <fptr FILEID="t004" />
    <fptr FILEID="i004" />
  </div>
  <div TYPE="document" LABEL="Gender and sexuality construction, as informed by Hip Hop Kulture within the African American community" ORDER="5">
    <fptr FILEID="s005" />
    <fptr FILEID="t005" />
    <fptr FILEID="i005" />
  </div>
  <div TYPE="document" LABEL="Mormon women: negotiating identities in the face of conflicting demands" ORDER="6">
    <fptr FILEID="s006" />
    <fptr FILEID="t006" />
    <fptr FILEID="i006" />
  </div>
  <div TYPE="document" LABEL="Vertical analysis of four units of debitage from the Kinney Spring Site (5LR144c): a multiple occupation site in northeastern Arizona" ORDER="7">
    <fptr FILEID="s007" />
  </div>
</structMap>
```

METS Example

```
<structMap TYPE="Logical" ID="smd001">
  <div ORDER="1" ID="MANUAL_GENERATED_STRUCTMAP" TYPE="document" LABEL="CSU Board of Governors 2004 meeting agendas and minutes"
    xmlns:mets="http://www.loc.gov/METS/"
    xmlns:mods="http://www.loc.gov/mods/"
    xmlns:xlink="http://www.w3.org/1999/xlink"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
    xmlns="http://www.loc.gov/METS/" >
    <div ID="div1.1" LABEL="February 3" TYPE="document" ORDER="1">
      <div LABEL="Agenda" TYPE="document" ORDER="1">
        <fptr FILEID="s001" />
        <fptr FILEID="t001" />
        <fptr FILEID="i001" />
      </div>
      <div LABEL="Minutes" TYPE="document" ORDER="2">
        <fptr FILEID="s002" />
        <fptr FILEID="t002" />
        <fptr FILEID="i002" />
      </div>
    </div>
    <div ID="div1.2" LABEL="March 17" ORDER="2">
      <div LABEL="Agenda" TYPE="document" ORDER="1">
        <fptr FILEID="s003" />
        <fptr FILEID="t003" />
        <fptr FILEID="i003" />
      </div>
      <div LABEL="Minutes" TYPE="document" ORDER="2">
        <fptr FILEID="s004" />
        <fptr FILEID="t004" />
        <fptr FILEID="i004" />
      </div>
    </div>
    <div ID="div1.3" LABEL="May 5" ORDER="3">
      <div LABEL="Agenda" TYPE="document" ORDER="1">
        <fptr FILEID="s005" />
```


Customizations

- Web interface
- Metadata display
- Media viewer
- Deposit module ...



Web Interface Customization

1. What can be customized

- Icons
- Menu
- Footer
- List of sort types

2. What cannot be customized

General page layout

3. Most DigiTool sites look similar

CSU Digital Repository



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, [Books](#) ...

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[...And the Air Stood Still: Remembrances](#)

YIVO Institute for Jewish Research

(509)

[YIVO Archives](#) , [YIVO Library](#)

American Jewish Historical Society

(1398)

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...

American Sephardi Federation (2848)

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Materials](#) , [Turkish Synagogues](#)

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[Finding Aids for YUM's Archival Materials](#) ...

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(48)

[John J. Burns Library Collections](#)

(1685)

[Liturgy and Life Artifacts Collection](#) , [Thomas](#)

[P. "Tip" O'Neill, Jr., Photographs](#) , [Boston Gas Company Photographs](#)

[The Becker Collection](#) (560)

[Media Center Streaming Videos](#) (86)

[The Church in the 21st Century](#) (97)

[Occasional Papers](#) , [Webcasts](#)

[Fine Arts Department Digital Images of Art \(BCdia\)](#) (2495)

[Research Unit, Center, or Department](#)

(381)

[Economics Department](#)

[Dept. of Business Law, Carroll School](#)

[of Management](#) (11)

Customization – Caution!



- We purposely chose to limit customization
- Customization should be done by experienced programmers
- Back up before changes are made
- Test on a test server (separate purchase)



Delete extra dot in Creator field



Object

-  Computer vision algorithms for retinal v... - PDF Document (1 M)
-  Computer vision algorithms for retinal v... - PDF Document (9 M)
-  Computer vision algorithms for retinal v... - Text ()
-  Computer vision algorithms for retinal v... - PDF Document (16 M)


Record number

000001490

Title

Computer vision algorithms for retinal vessel detection and width change detection.

Creator

Fritzsche, Kenneth H. . 

Subject

Computer science.

Description

xiii, 163 p. : ill.

Thesis (Ph. D.)--Rensselaer Polytechnic Institute, May 2004.

RPI demo September 28, 2004.



Multiple copies of the same file

- Multiple edit_doc_999.eng
 1. ./***/***/***/tab/edit_doc_999.eng
 2. ./***/***/***/tab/edit_doc_999.eng
 3. ./***/***/***/tab/edit_doc_999.eng
 4. ./***/***/***/tab/edit_doc_999.eng
 5. ./***/***/***/tab/edit_doc_999.eng
 6. ./***/***/***/tab/edit_doc_999.eng
 7. ./***/***/***/***/***/tab/edit_doc_999.eng
 8. ./***/***/***/tab/edit_doc_999.eng
 9. ./***/***/***/tab/edit_doc_999.eng
 10. ./***/***/***/tab/edit_doc_999.eng



- Multiple edit_field.eng
 1. ./***/***/***/tab/edit_field.eng
 2. ./***/***/***/tab/edit_field.eng
 3. ./***/***/***/tab/edit_field.eng
 4. ./***/***/***/tab/edit_field.eng
 5. ./***/***/***/tab/edit_field.eng
 6. ./***/***/***/***/***/tab/edit_field.eng
 7. ./***/***/***/tab/edit_field.eng
 8. ./***/***/***/tab/edit_field.eng
 9. ./***/***/***/tab/edit_field.eng

Final Solution



- `./****/****/****/tab/edit_doc_999.eng`

```
# # 102 D LCreator Y E
```

- `./****/****/****/tab/edit_field.eng`

```
1 L 102## D .
```

Permanent URL

<http://hdl.handle.net/10217/1552>



Object



Recommended animal handling guidelines f... - PDF Document (3 M)

Bookmarkable URL

<http://hdl.handle.net/10217/1552>



Authors

Grandin, Temple

Title

Recommended animal handling guidelines for meat packers

Subjects

Livestock — Handling

Description

Proper livestock handling is extremely important to meat packers for obvious ethical reasons. Once livestock arrive at packing plants, proper handling procedures are not only important for the animals' well-being, but can also mean the difference between profits and losses due to meat quality or worker safety. The Humane Slaughter Act of 1978 dictates strict animal handling and slaughtering standards for packing plants. Those standards are monitored by some 7,000 federal meat inspectors nation-wide. The meat packing industry takes these standards very seriously. For the best results in animal handling, plant management must make proper handling and stunning a high priority. Top management must play an active role. Plants with the best handling and stunning practices have managers who closely monitor stunning and handling practices. This manual provides employees and managers with information which will help them improve both handling and stunning. Employees handling hundreds of animals day after day sometimes need reminders from management that animals must always be handled carefully.



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Customize Metadata Display

Adding and customizing descriptive DC metadata fields

Also see [Digital Repositories:Customize Metadata](#).

- A list of fields and their properties are at <file:///t:/Digital%20Repositories/documentation/metadata-fields.xls>.
 - make a backup of all files by running /exlibris/dtl/gvbackup/dcbackup.sh
 - run as dtl by typing dp, add_new_dc_tag.pl CSU01
- Field code: one word, lower case variable name of the field
 - Field name: display name of the field
 - name space: dcterms
 - number of occurrences: 1 (optional unbounded 0*) for a repeating field like subject, or 2 (optional single 0-1)
 - help on tag text: a short description of the field
 - attributes: y
 - attribute names: leave blank
 - running method: 1 (run now)
- restart PC, Web and Jboss servers
 - the add_new_dc_tag.pl script also creates a backup file of files like editor_conf.xml that are automatically changed. The backups are in the same directory, of the format editor_conf.xml.bak.24082007_103639.
 - a log file of changes made by the script is created in /exlibris/dtl/d3_1/log/add_new_dc_tag_csu01.log
 - /exlibris/dtl/u3_1/csu01/md/descriptive/dc/editor_conf.xml - automatic
 - /exlibris/dtl/u3_1/csu01/md/descriptive/dc/full_dc.xml - automatic
 - /exlibris/dtl/d3_1/dtl/md/descriptive/dc/html/dcterms/newfield_eng.html - help file - automatic
 - /exlibris/dtl/u3_1/csu01/md/descriptive/dc/md.pck - automatic
 - /exlibris/dtl/j3_1/digitool/home/system/conf/repository_indexing_schema.xml - manual: reload repository config or restart jboss. There's an error in the log file. You need to add newly created field twice. E.g.

```
<field index_enabled="true" search_enabled="true" ui_code="313" ui_default_text="keywords"
index_code="313" normalizing_profiles_ref="generic"> <location type="md"
md_name="descriptive" md_type="dc" path="// dcterms:keywords"/> </field> <field
index_enabled="true" search_enabled="true" ui_code="313" ui_default_text="keywords"
index_code="313" normalizing_profiles_ref="generic">
<field_path>//dcterms:keywords</field_path> </field>
```

- /exlibris/dtl/u3_1/gen01/tab/harvesting_schema.xml - manual, for indexing in RD

- You need to add the newly created field only once in this file.
- Note: !!! Make sure normalizing_profiles_ref="empty" NOT normalizing_profiles_ref="generic". If generic is used, metadata will be converted into lower case and concatenated together. E.g.:

```
<field index_enabled="true" search_enabled="true" ui_code="313" ui_default_text="doc-313"
index_code="313" normalizing_profiles_ref="empty"> <location type="md"
md_name="descriptive" md_type="dc" path="//dcterms:keywords"/> </field>
```

- /exlibris/dtl/u3_1/dtle/tab/tab12 - automatic
- /exlibris/dtl/u3_1/gen01/tab/tab01_eng - automatic, for indexing in RD. This file contains numbers (ui_code) associated with metadata which are referenced in /exlibris/dtl/u3_1/gen01/tab/www_r_silo_conf.xml
- /exlibris/dtl/u3_1/gen01/tab/tab00_eng - manual, for indexing in RD. "H W-030 00 00 W-CSU Custom Fields" is added already. Don't need to update this file.
- /exlibris/dtl/u3_1/gen01/tab/tab11_word - automatic, manual for indexing in RD. Need to add WNF to the end of the newly added line. e.g. 312## a 03 WRD WNF.
- Run p_manage_91 indexing service - available from Meditor Services Menu - for changes to above 4 files (documentation suggests this but we have never actually tried it)
- /exlibris/dtl/u3_1/gen01/tab/www_r_silo_conf.xml - manual, for displaying in RD search results (brief, full or column)
- /exlibris/dtl/u3_1/gen01/tab/tab_sort - manual, for sorting in RD and meditor, usually not done
- /exlibris/dtl/j3_1/digitool/home/system/wsl/digital_entity/dc_marc_functions.xml - manual, for displaying in RD item viewer, restart is not necessary. This file defines the label and position of the new field in the item viewer. Copy an existing block of code and change the name field (2x). E.g.:

```
<xsl:for-each select="//dcterms:metadataschema"> <xsl:variable name="str" select="'Metadata Schema'"> ...(<conf/d...)
```

- /exlibris/dtl/u3_1/gen01/tab/edit_doc_999.eng - manual, for printing, saving and link viewing from Meditor
- /exlibris/dtl/u3_1/gen01/tab/edit_field.eng - manual, for web display/print. e.g. after added etd_school add these lines to the previously added customized metadata

```
1 L 312## D          a A ^
2
1 L 312## S          a A ^
2
```

Customize Metadata Display

- Back up all files using a shell script
- Follow procedures as documented
 1. Field code: one word, lower case variable name of the field
 2. Field name: display name of the field
 3. name space: dcterms
 4. number of occurrences: 1 (optional unbounded 0*) for a repeating field like subject, or 2 (optional single 0-1)
 5. help on tag text: a short description of the field
 6. attributes: y
 7. attribute names: leave blank
 8. running method: 1 (run now)



Customize Metadata Display

- Triple check spelling and syntax. Minor error can crash the system
- Some changes are irreversible
- Restart the system



Promotion

- Team up with College Liaison Librarians
 - Work with the Graduate School
- An article in “Library Connection” magazine
 - Brochures
 - Presentations
 - Random talks



Issues & Observations

- Copyright
- Deposit
 - Planned, not currently in use yet
- System Update
- Maintenance
 - File names are replaced by PIDs
 - 994 items vs. 9294 PIDs
- Usage
 - most hits are from Google:
<http://lib.colostate.edu/repository/items.php>
- Project Management/Documentation
 - FlySpray, Wiki



FlySpray



Show Task #

Shu Liu (shu) | My searches | Logout

DigiTool Overview | Tasklist | Add new task | Event log | Roadmap

Welcome to the DigiTool Project

Search this project for

Advanced

Save search as

	ID	Task Type	Severity	Summary	Status	Category	Last Edited	Assigned To
<input checked="" type="checkbox"/>	261	Bug Report	Critical	Service Pack 19	Assigned	Backend / Core	2008-03-07	Greg Vogl
<input type="checkbox"/>	255	Bug Report	Critical	test server ingest Part I	Waiting for Feedback	CRM	2008-02-21	Shu Liu
<input type="checkbox"/>	250	Feature Request	Critical	test server task list	Assigned	Backend / Core	2008-03-05	Dawn Bastian, +1
<input type="checkbox"/>	249	Feature Request	Critical	add storage rules	Assigned	Backend / Core	2008-03-06	Alan Crump, +1
<input type="checkbox"/>	228	Feature Request	Critical	P1 Add real data	Assigned	Backend / Core	2008-02-21	Shu Liu, +1
<input type="checkbox"/>	182	Feature Request	Critical	disk space and repartitioning	Hold for test server	CRM	2008-02-14	Dennis C. Ogg, +1
<input type="checkbox"/>	155	Feature Request	Critical	P1 enable crawling of objects	Assigned	Backend / Core	2008-03-13	Greg Vogl
<input type="checkbox"/>	241	Feature Request	High	Add identifier and metadata schema fields to past inges...	Assigned	Backend / Core	2008-02-15	Dawn Bastian, +2
<input type="checkbox"/>	219	Feature Request	High	P1 Digital Repository Web site design	Assigned	Backend / Core	2008-01-22	Dawn Bastian, +2
<input type="checkbox"/>	171	Feature Request	High	P1 Ingesting METS objects (with and without hierarchies...	Assigned	Backend / Core	2008-01-17	Alan Crump, +2
<input type="checkbox"/>	251	Feature Request	Medium	DigiTool training agenda	Assigned	Backend / Core		Alan Crump, +2
<input type="checkbox"/>	248	Feature Request	Medium	schedule DigiTool training	Assigned	Backend / Core		Dawn Bastian
<input type="checkbox"/>	160	Bug Report	Medium	RD problems	Waiting for Feedback	CRM	2008-03-13	Alan Crump, +1
<input type="checkbox"/>	262	Bug Report	Low	jpeg2000 error on test server	Assigned	Backend / Core		Greg Vogl
<input type="checkbox"/>	260	Bug Report	Low	OAI problems	Waiting for Feedback	CRM	2008-02-20	Greg Vogl
<input type="checkbox"/>	259	Bug Report	Low	Meditor crashes on test server when run harvest job 02	Assigned	Backend / Core		Alan Crump, +2
<input type="checkbox"/>	256	Bug Report	Low	test server PDS not working	Assigned	Backend / Core		Dennis C. Ogg, +1

Wiki

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article **discussion** edit history



Staff Wiki

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Digital Repositories

Departmental wiki of Digital Repositories Services:

- Dawn Bastian - Coordinator, phone: 1-1849
- Shu Liu - Digital Content Librarian, phone: 1-1824
- Yongli Zhou - Digital Repositories Librarian, phone: 1-7333

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Discussion of Archival Masters

How to create PDF/A

Timeline

Production Implementation

[edit]

[edit]



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Conclusion

- Implementing an IR is a team effort
 - regular meetings at the early stage
- Less tech support needed once established
- DigiTool requires a relatively shorter implementation period
- Nearly 1,000 items since implementation





<http://digitool.library.colostate.edu/R>



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